AMENDMENTS TO THE CLAIMS

1. (Currently amended) A method for host-device communication (+03) in a first <u>Wireless Universal Serial Bus (WUSB)</u> network (+09) including a host (+01) and at least one connected device (+03), comprising the steps of:

beaconing (402) according to a distributed <u>Ultra WideBand Medium Access Control</u> (<u>UWB MAC</u>) protocol by the host and the at least one connected device; receiving by the host <u>Device Notification Traffic (DNT)</u> *traffic (403) (405); and operating the WUSB network by the host according to the capabilities of the connected devices (406) (409) (410);

wherein said beaconing comprising

including capabilities of the host in a host beacon; and including capabilities of the at least one connected device in a connected device beacon.

- (Currently amended) The method of claim 1, further comprising-the step of, if
 distributed reservation is supported, setting an offset field and a duration field in a <u>Distributed</u>
 <u>Reservation Protocol (DRP)</u> reservation to a multiple of a predetermined value.
 - 3. (Original) The method of claim 2, wherein the predetermined value is 625usec.
- 4. (Currently amended) The method of claim 1, further comprising the at least one connected device (402) performing one of the following steps-of:
 - i: using Distributed Reservation Protocol (DRP) access to indicate traffic;
- using <u>Enhanced Distributed Channel Access (EDCA)</u> to send notification traffic;

and

- signaling in the beacons to send notification traffic.
- 5. (Cancelled)

- (Currently amended) The method of claim 1, further comprising the step-of-the at least one connected device (102) discovering the host (101) via the host beacon.
- (Currently amended) The method of claim 1, wherein the operating step-further
 comprises the step-of-if the connected device supports <u>Enhanced Distributed Channel Access</u>
 (EDCA), the host performing the steps-of:

using an EDCA mechanism to access the medium (406);

polling the at least one connected device (102) to request that the at least one connected device (102) transmit data; and

receiving data from the at least one connected device (102) as a result of the poll.

8. (Currently amended) The method of claim 7, further comprising the at least one connected device (402) performing one of the following-steps-of:

using <u>Distributed Reservation Protocol</u> (DRP) access to indicate traffic; using EDCA to send notification traffic; and

signaling in the beacons to send notification traffic.

9. (Currently amended) The method of claim 1, wherein the operating step-further comprises the step-of-if the connected device (102) supports Unicast <u>Distributed Reservation Protocol (DRP)</u>, performing a Unicast reservation by the host performing the steps of:

initiating a Unicast DRP reservation to the at least one device to reserve channel resources for transmission of data to the host by the at least one device (4407);

polling the at least one connected device during DRP to request that the at least one connected device transmit data (409); and

receiving data from the at least one connected device at a result of the poll.

10. (Currently amended) The method of claim 9, further comprising the at least one connected device (402) performing one of the <u>following steps of</u>:

using DRP access to indicate traffic;

using <u>Enhanced Distributed Channel Access</u> (EDCA) to send notification traffic; and signaling in the beacons to send notification traffic.

11. (Currently amended) The method of claim 1, wherein the operating step-further comprises the step-of-if the connected device (492) supports Multicast <u>Distributed Reservation</u>

Protocol (DRP), performing a Multicast reservation by the host (404) performing the steps of:

reserving channel resources in a first DRP reservation by inclusion of multicast DRP in beacons to achieve a first reservation (40%);

for each connected device that is a non-accepting device that does not accept the Multicast DRP reservation, initiating regular DRP negotiation with each non-accepting device to achieve at least one of a Unicast reservation for each non-accepting and a second DRP reservation (4444);

micro-scheduling the channel resources of the first and second DRP reservation among those connected devices of the at least one connected device that accept the multicast DRP reservation-(410); and

receiving data from the at least one connected device.

12. (Currently amended) The method of claim 11, further comprising the at least one connected device (±02) performing one of the following steps-of:

using DRP access to indicate traffic;

using <u>Enhanced Distributed Channel Access</u> (EDCA) to send notification traffic; and signaling in the beacons to send notification traffic.

- 13. (Currently amended) The method of claim 12, wherein the initiating regular DRP negotiation step-further (411) comprises the step of performing at least one of the steps of initiating a Unicast DRP reservation with a non-accepting device and initiating a second Multicast DRP reservation with non-accepting devices.
- 14. (Currently amended) The method of claim 13, further comprising the step-of the at least one connected device (±02) acting as a host (±01) in a second WUSB network.

- 15. (Currently amended) The method of claim 14, wherein the at least one connected device (+02) acting as a host (+01) of the second WUSB network performs at least some of the steps performed by the host (+0+) of the first WUSB network.
- 16. (Currently amended) The method of claim 15, further comprising the step of if distributed reservation is supported setting an offset field and a duration field in a DRP reservation to a multiple of a predetermined value.
 - 17. (Original) The method of claim 16, wherein the predetermined value is 625usec.
- 18. (Currently amended) The method of claim 13, further comprising the step of if distributed reservation is supported setting an offset field and a duration field in a DRP reservation to a multiple of a predetermined value.
 - 19. (Original) The method of claim 18, wherein the predetermined value is 625usec.
- 20. (Currently amended) A host apparatus (300) for host-device communication in a first Wireless Universal Serial Bus (WUSB) network including the host (101) and at least one connected device (102), comprising:
- a transmitter (301) for sending beacons, traffic notifications, medium reservations and data;
- a receiver (304) for receiving beacons, traffic notifications, medium reservations and data:
- a host data transfer processing component (303a) that processes data transferred between the host (101) and the at least one connected device (102); and
- a controller (302) operably coupled to the transmitter (301), receiver (304) and host data transfer processing component (303) and configured to direct the transmitter (301), receiver (304) and host data transfer processing component (303) to
 - start beaconing according to a distributed <u>Ultra WideBand Medium Access</u>
 <u>Control (UWB MAC)</u> protocol and announce host capabilities (402),

receive and process according to a distributed UWB MAC protocol, beacons of the at least one connected device (102) including capabilities of the at least one device, receive and process Device Notification Traffic (DNT traffic) (405), and start and control WUSB operation of the network (406) (409) (410).

21. (Currently amended) The host apparatus of claim 20, wherein the controller (302) is further configured to direct the transmitter (301), receiver (304) and host data transfer processing component (303) to:

include multicast <u>Distributed Reservation Protocol</u> (DRP) in beacons and then start micro-scheduling operation if multicast DRP is supported (410);

receive and process DNT traffic (405) and if only unicast DRP is supported by the connected device negotiate unicast DRP (407) with the at least one connected device (402) and then start WUSB operation-(409); and

receive and process DNT traffic (403) and if only <u>Enhanced Distributed Channel Access</u> (EDCA) is supported by the connected device start WUSB operation with poll frame using EDCA-(4466).

- 22. (Currently amended) The host apparatus of claim 20, wherein the controller (302) is further configured to direct the device data transfer processing component (353) to set an offset field and a duration field in each DRP reservation to a multiple of a predetermined value if distributed reservation is supported.
- 23. (Original) The host apparatus of claim 22, wherein the predetermined value is 625usec.
- 24. (Currently amended) The host apparatus of claim 20, wherein when the connected device (102) only supports Enhanced Distributed Channel Access (EDCA), the controller (302) is further configured to control the operation of the host by directing the receiver (304), transmitter (302) and host data transfer processing unit (303) to:

use an EDCA mechanism to access the medium-(406);

poll the at least one connected device (402) to request that the at least one connected device transmit data (406); and

receive data from the at least one connected device as a result of the poll.

25. (Currently amended) The host apparatus of claim 20, wherein the connected device (+102) supports Unicast DRP the controller (+302) is further configured to control the operation of the host (+101) by directing the receiver (+304), transmitter (+302) and host data transfer processing unit (+303) to:

initiate a Unicast DRP reservation (407) to the at least one device to reserve channel resources for transmission of data to the host (404) by the at least one connected device (402);

poll the at least one connected device (+20) during DRP to request that the at least one connected device (+02) transmit data (+09); and

receive data from the at least one connected device (102) at a result of the poll.

26. (Currently amended) The host apparatus of claim 20, wherein the at least one connected device (402) supports multicast DRP and the controller (302) is further configured to control the operation of the host (401) by directing the receiver (304), transmitter (302) and host data transfer processing unit (303) to:

reserve channel resources in a first Multicast DRP reservation by inclusion of multicast DRP in beacons to achieve a first reservation-4488;

for each said at least one connected device (492) that is a non-accepting device that does not accept the first Multicast DRP reservation, initiate regular DRP negotiation with each non-accepting device to achieve at least one of a Unicast reservation for each non-accepting and a second DRP reservation (4411);

micro-schedule the channel resources of the first and second DRP reservation among those connected devices of the at least one connected device that accept the multicast DRP reservation (4410); and

receive data from the at least one connected device.

27. (Original) The host apparatus of claim 26, wherein regular DRP negotiation comprises at least one of negotiation of a Unicast DRP reservation with a non-accepting device and a second Multicast DRP reservation for non-accepting devices.

28. (Currently amended) A method for host-device communication in a <u>Wireless Universal Serial Bus (WUSB)</u> network including a host and at least one connected device, comprising the steps of:

beaconing according to a distributed <u>Ultra WideBand Medium Access Control (</u>UWB MAC) protocol by the host and the at least one connected device;

the host establishing a multicast reservation between the host and the at least one connected device; and

running a WUSB protocol inside the multicast reservation;

wherein said beaconing comprising

including capabilities of the host in a host beacon; and

including capabilities of the at least one connected device in a connected device beacon.

29. (Currently amended) The method of claim 28, wherein the establishing and running steps-each further comprise the steps-of

reserving channel resources by inclusion of a multicast reservation information element in beacons to achieve a first reservation;

micro-scheduling the channel resources of the multicast reservation among those connected devices of the at least one connected device that accepted the multicast reservation; and

receiving data from the at least one connected device.

30. (Currently amended) The method of claim 29, wherein the reserving step-further comprises the steps-of:

initiating a unicast reservation with a non-accepting device; and initiating a second multicast reservation with a plurality of non-accepting devices.

- 31. (Currently amended) The method of claim 28, further comprising the step of setting an offset field and a duration field in a reservation to a multiple of a predetermined value.
 - 32. (Original) The method of claim 30, wherein the predetermined value is 625usec.
- 33. (Currently amended) The method of claim 28, further comprising the at least one connected device performing one of the following-steps-of:

using <u>Distributed Reservation Protocol (DRP)</u> access to indicate traffic; using <u>Enhanced Distributed Channel Access (EDCA)</u> to send notification traffic; and signaling in the beacons to send notification traffic.

- 34. (Cancelled)
- 35. (Currently amended) The method of claim 33, further comprising the step of the at least one connected device discovering the host via a host beacon.
- 36. (Currently amended) A method for host-device communication in a <u>Wireless</u> <u>Universal Serial Bus</u> (WUSB) network including a host and at least one connected device, comprising the steps of:

beaconing according to a distributed <u>Ultra WideBand Medium Access Control (</u>UWB) MAC protocol by the host and the at least one connected device;

establishing unicast reservations between the host and the at least one connected device; and

running a WUSB protocol inside the unicast reservations;

wherein said beaconing comprising

including capabilities of the host in a host beacon; and including capabilities of the at least one connected device in a connected device beacon.

37. (Currently amended) The method of claim 36, wherein the establishing and running steps-each further comprise the steps of the host initiating a unicast reservation to the at least one connected device to reserve channel resources for transmission of data to the host by the at least one connected device:

the host polling the at least one connected device during the reservation to request that the connected devices transmit data; and

the at least one connected device transmitting data to the host as a result of the poll.

38. (Currently amended) The method of claim 36, further comprising the at least one connected device performing one of the following steps of:

using <u>Distributed Reservation Protocol</u> (DRP) access to indicate traffic; using <u>Enhanced Distributed Channel Access</u> (EDCA) to send notification traffic; and signaling in the beacons to send notification traffic.

- 39. (Cancelled)
- 40. (Currently amended) The method of claim 38, further comprising the step of the at least one connected device discovering the host via a host beacon.
- 41. (Currently amended) A method for host-device communication in a <u>Wireless</u> <u>Universal Serial Bus (WUSB)</u> network including a host and at least one connected device, comprising the steps of:

beaconing_according to a distributed Ultra WideBand Medium Access Control (UWB MAC) protocol by the host and the at least one connected device;

the host using an Enhanced Distributed Channel Access (EDCA) mechanism to access the medium;

the host polling the at least one connected device to request that the at least one connected device transmit data; and

the host receiving data from the at least one connected device as a result of the poll; wherein said beaconing comprising

including capabilities of the host in a host beacon; and including capabilities of the at least one connected device in a connected device beacon.

- 42. (Cancelled)
- 43. (Currently amended) The method of claim 41, further comprising the step of the at least one connected device performing one of the <u>following steps</u> of:

using <u>Distributed Reservation Protocol</u> (DRP) access to indicate traffic; using EDCA to send notification traffic; and signaling in the beacons to send notification traffic.

- 44. (Cancelled)
- 45. (Currently amended) The method of claim 43, further comprising the step of the at least one connected device discovering the host via a host beacon.